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# Gait in Parkinson's Disease

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**Gait in Parkinson's Disease** *(Feb. 25, 2008, midnight)*

PhysioBank now includes a large database of [Gait in Parkinson's Disease](#), a collection of multichannel recordings from force sensors beneath the feet of 93 patients with Parkinson's Disease, and 73 healthy controls, collected from three studies.

**Please include the standard citation for PhysioNet:** [\(show more options\)](#)  
Goldberger, A., Amaral, L., Glass, L., Hausdorff, J., Ivanov, P. C., Mark, R., ... & Stanley, H. E. (2000). PhysioBank, PhysioToolkit, and PhysioNet: Components of a new research resource for complex physiologic signals. Circulation [Online]. 101 (23), pp. e215–e220.

## Data Description

Parkinson's disease (PD) is one of the most common movement disorders, affecting approximately 1 million Americans (estimates range between 4 and 6.5 million people worldwide) and about 1% of older adults. In the US alone, 60,000 new cases are diagnosed each year. PD is a chronic and progressive neurological disorder that results in tremor, rigidity, slowness, and postural instability. A disturbed gait is a common, debilitating symptom; patients with severe gait disturbances are prone to falls and may lose their functional independence.

This database contains measures of gait from 93 patients with idiopathic PD (mean age: 66.3 years; 63% men), and 73 healthy controls (mean age: 66.3 years; 55% men). The database includes the vertical ground reaction force records of subjects as they walked at their usual, self-selected pace for approximately 2 minutes on level ground. Underneath each foot were 8 sensors ([Ultraflex Computer Dyno Graphy, Infotronic Inc.](#)) that measure force (in Newtons) as a function of time. The output of each of these 16 sensors has been digitized and recorded at 100 samples per second, and the records also include two signals that reflect the sum of the 8 sensor outputs for each foot. For details about the format of the data, please see [this note](#).

With this information, one can investigate the force record as a function of time and location, derive measures that reflect the center-of-pressure as a function of time, and determine timing measures (e.g., stride time, swing time) for each foot as functions of time. Thus, one can study the stride-to-stride dynamics and the variability of these time series.

This database also includes demographic information, measures of disease severity (i.e., using the Hoehn & Yahr staging and/or the Unified Parkinson's Disease Rating Scale) and other related measures (available in [HTML](#) or [xls spreadsheet](#) format).

A subset of the database includes measures recorded as subjects performed a second task (serial 7 subtractions) while walking, as in the figure above, which shows excerpts of swing time series from a patient with PD (lower panels) and a control subject (upper panels), under usual walking conditions (at left) and when performing serial 7 subtractions (at right). Under usual walking conditions, variability is larger in the patient with PD (Coefficient of Variation = 2.7%), compared to the control subject (CV = 1.3%). Variability increases during dual tasking in the subject with PD (CV = 6.5%), but not in the control subject (CV = 1.2%). From Yogev et al. (reference [4] below).

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### Discovery

**DOI:**  
<https://doi.org/10.13026/C24H3N>

**Topics:**  

parkinsons

gait

### Corresponding Author

*You must be logged in to view the contact information.*

# References

1. Frenkel-Toledo S, Giladi N, Peretz C, Herman T, Gruendlinger L, Hausdorff JM. [Effect of gait speed on gait rhythmicity in Parkinson's disease: variability of stride time and swing time respond differently.](#) *Journal of NeuroEngineering and Rehabilitation* 2005; 2:23.
2. Frenkel-Toledo, S, Giladi N, Peretz C, Herman T, Gruendlinger L, Hausdorff JM. [Treadmill walking as a pacemaker to improve gait rhythm and stability in Parkinson's disease.](#) *Movement Disorders* 2005; 20(9):1109-1114.
3. Hausdorff JM, Lowenthal J, Herman T, Gruendlinger L, Peretz C, Giladi N. [Rhythmic auditory stimulation modulates gait variability in Parkinson's disease](#) *Eur J Neuroscience* 2007; 26: 2369-2375.
4. Yogev G, Giladi N, Peretz C, Springer S, Simon ES, Hausdorff JM. [Dual tasking, gait rhythmicity, and Parkinson's disease: Which aspects of gait are attention demanding?](#) *Eur J Neuroscience* 2005; 22:1248-1256.

# Contributors

For more information about PD, see [Parkinson's Disease: Hope Through Research](#) at the NIH NINDS web site, and [Living With Parkinson's](#) at the web site of the Michael J. Fox Foundation for Parkinson's Research.

This work was supported in part by grants from the National Institutes of Health, National Parkinson Foundation, and the Parkinson's Disease Foundation and was collected at the Laboratory for Gait & Neurodynamics, Movement Disorders Unit of the Tel-Aviv Sourasky Medical Center. For more information, please contact Dr. Jeffrey M. Hausdorff ([jhausdor@tasmc.health.gov.il](mailto:jhausdor@tasmc.health.gov.il) or [jhausdor@bidmc.harvard.edu](mailto:jhausdor@bidmc.harvard.edu)).

# Files

Total uncompressed size: 288.4 MB.

































## Access the files





























































































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 <a href="#">JuPt28_03.txt</a>		794.3 KB	2005-01-12
 <a href="#">JuPt28_04.txt</a>		858.8 KB	2005-01-12
 <a href="#">JuPt28_05.txt</a>		808.7 KB	2005-01-12
 <a href="#">JuPt28_06.txt</a>		847.1 KB	2005-01-12
 <a href="#">JuPt28_07.txt</a>		832.1 KB	2005-01-12
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 <a href="#">SiCo03_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo04_01.txt</a>		1.1 MB	2004-11-14

Name		Size	Modified
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 <a href="#">SiCo06_01.txt</a>		1023.9 KB	2004-11-14
 <a href="#">SiCo07_01.txt</a>		994.4 KB	2004-11-14
 <a href="#">SiCo08_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo09_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo10_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo11_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo12_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo13_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo14_01.txt</a>		1.1 MB	2004-11-14
 <a href="#">SiCo15_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo16_01.txt</a>		1.1 MB	2004-11-14
 <a href="#">SiCo17_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo18_01.txt</a>		988.4 KB	2004-11-14
 <a href="#">SiCo19_01.txt</a>		1.0 MB	2004-11-14
 <a href="#">SiCo20_01.txt</a>		1.1 MB	2004-11-14
 <a href="#">SiCo21_01.txt</a>		1.0 MB	2004-11-14
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 <a href="#">SiPt18_01.txt</a>		1.1 MB	2004-11-14
 <a href="#">SiPt19_01.txt</a>		1.0 MB	2004-11-14
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 <a href="#">SiPt21_01.txt</a>		1.0 MB	2004-11-14
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 <a href="#">demographics.txt</a>		15.3 KB	2006-06-04
 <a href="#">demographics.xls</a>		46 KB	2008-02-25
 <a href="#">format.txt</a>		2.3 KB	2008-02-25
 <a href="#">gaitpd.png</a>		21.6 KB	2007-09-06

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